

DESCRIPTION

Species Reactivity	Cotton Rat
Specificity	Detects cotton rat CXCL10/IP-10/CRG-2 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human CXCL1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, or 16, recombinant mouse CXCL1, 2, 4, 6, 7, 9, 10, 11, 12, 13, 15 or 16, recombinant rat CX
Source	Monoclonal Mouse IgG ₁ Clone # 163426
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant cotton rat CXCL10/IP-10/CRG-2 Ile22-Val94 Accession # AAL16935
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

Neutralization	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

IP-10, also named mob-1 in rat and crg-2 in mouse, is a member of the non-ELR-motif containing CXC chemokine subfamily and has been designated CXCL10. It is induced in various cell types (including keratinocytes, endothelial cells, fibroblasts, smooth muscle cells, monocytes/macrophages, astrocytes, neutrophils, hepatocytes, T cells, epithelial cells and mesothelial cells) in response to stimulation by type I and/or type II interferon as well as by LPS. IP-10 has been shown to chemoattract activated CD4⁺ and CD8⁺ T cells, activated NK cells and smooth muscle cells. It also induces the adhesion of activated T cells to VCAM and ICAM. In addition, IP-10 has been reported to antagonize the angiogenic activity of FGF. IP-10 binds to and activates CXCR3, the chemokine receptor that is shared by MIG/CXCL9 and I-TAC/CXCL11, two additional non-ELR CXC chemokines that are induced by interferon. Cotton rat IP-10 cDNA encodes a 94 amino acid (aa) residue precursor protein with a putative 21 aa signal peptide and a 73 aa mature protein with one potential N-linked glycosylation site. Mature cotton rat IP-10 shares 66%, 64%, and 66% aa sequence identity with rat, mouse and human IP10, respectively (1-7).

PRODUCT SPECIFIC NOTICES

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